

1. you could find O, H, Cl, F, S in an organic molecule. ✓

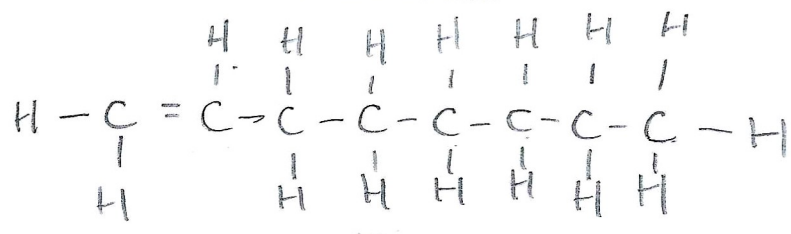
2. The liquid alkane has more carbons ✓ than the gas alkane.

3. The chemical formula of octane is C_8H_{18} ✓

4. The chemical formula of cycloalkane with 13 carbons is $C_{13}H_{26}$ ✓

5. C_7H_{12} has the most units of unsaturation ✓

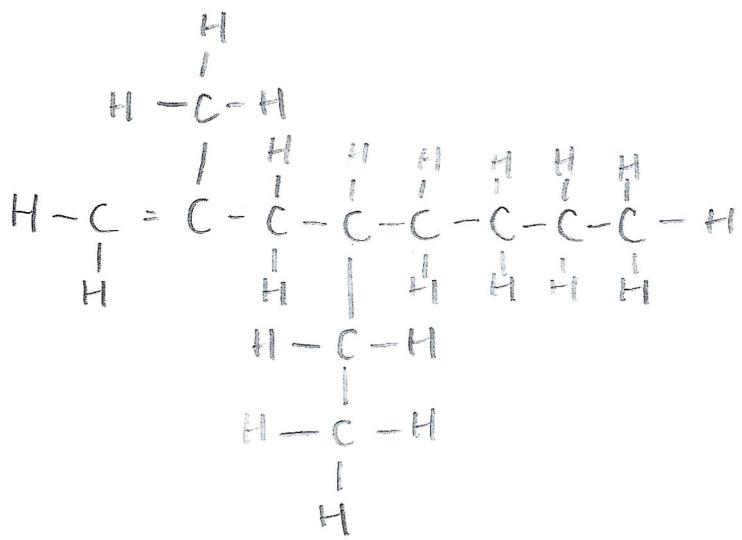
6. Base structure



✓

$\frac{20}{20}$

Lewis structure

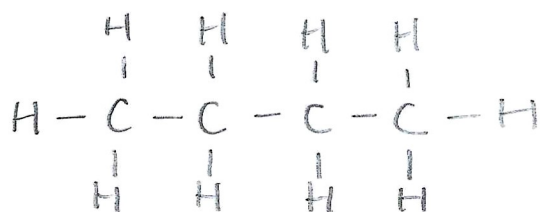


✓

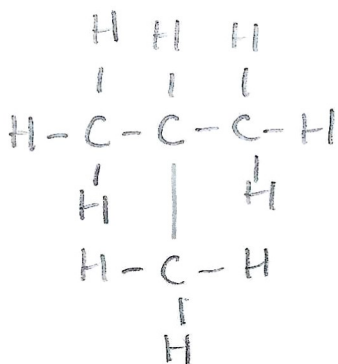
100%

7. a. and d. are the same Lewis structure ✓

8. first structure



second structure



9. The Iupac name of the compound is 3,3-dimethyl hexane ✓
10. The Iupac name of the compound is 3-fluoro-2-methyl-1-butene ✓
11. The Iupac name of the compound is 1-ethyl-3-methyl-cyclopentane ✓
12. The name of the product would be 3-ethyl nonane ✓
13. There would be four moles of hydrogen used ✓